

Notice of Allowability

Application No.

09/632,029

Examiner

Sam K. Ahn

Applicant(s)

ARATO ET AL.

Art Unit

2637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/23/05.
2. ☒ The allowed claim(s) is/are 2-14, 17, 19-29, 31-43, 46 and 48-58.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Daniel R. McClure, Reg. No. 38,962 on 02/03/06.

The application has been amended as follows:

- a. In claim 2, line 11, "from the plurality" has been changed to "from a plurality", line 16, "and a DSL transmission link" has been changed to "and the plurality of DSL transceiver data transmission links", and line 19, "and a DSL transmission link" has been changed to "and the plurality of DSL transceiver data transmission links".
- b. In claim 3, line 3, "from the plurality" has been changed to "from a plurality".
- c. In claim 7, line 4, "transceiver," has been changed to "transceiver closest to the customer interface,", line 5, "pairs" has been deleted, and line 6, "the DSL" has been changed to "the first DSL".
- d. In claim 8, line 4, "transceiver and" has been changed to "transceiver furthest to the customer interface and ", line 5, "pairs" has been deleted, and line 5, "the DSL" has been changed to "the last DSL".
- e. In claim 9, line 2, "upstream and downstream DSL transceiver to" has been deleted.
- f. In claim 10, line 2, "upstream and downstream DSL transceiver to" has been deleted.

- g. In claim 13, line 3, "with customer" has been changed to "with a customer", line 14, "interface," has been changed to "interface of the customer premise equipment," , lines 13 and 15, "transmission" has been changed to "transmissions", line 16, "transmission of the" has been changed to "transmissions of a" and line 18, "the reconstructed" has been changed to "a reconstructed".
- h. In claim 14, line 2, "a portion of a" has been changed to "the portion of the", line 3, "portion of a" has been changed to "portion of the".
- i. In claim 17, line 2, "plurality of DSL" has been changed to "plurality of serially connected DSL", line 3, "and second" has been changed to "and a second" and line 3, "between serially" has been changed to "between the serially".
- j. Claim 18 has been cancelled.
- k. In claim 19, line 5, "recovered portion" has been changed to "recovered mapped portion" and line 6, "interface;" has been changed to "interface of the customer premise;".
- l. In claim 25, lines 1-2, "to DSL transceiver upstream and downstream" has been deleted.
- m. In claim 26, line 1, "transfer is" has been changed to "transfer protocol is".
- n. In claim 28, line 2, "identifying mapped" has been changed to "identifying the mapped".
- o. In claim 29, line 2, "received portions" has been changed to "recovered portion" and line 4, "received and" has been deleted.

- p. In claim 31, line 11, "from the plurality" has been changed to "from a plurality", line 16, "and a DSL transmission link" has been changed to "and the plurality of DSL transceiver data transmission links", line 19, "and a DSL transmission link" has been changed to "and the plurality of DSL transceiver data transmission links", and line 21, "the customer" has been changed to "a customer".
- q. In claim 33, line 1, "communications" has been changed to "communication".
- r. In claim 34, line 1, "communications" has been changed to "communication".
- s. In claim 35, line 1, "communications" has been changed to "communication".
- t. In claim 36, line 1, "communications" has been changed to "communication", line 4, "transceiver" has been changed to "transceiver closest to the central office interface" and line 6, "the DSL" has been changed to "the first DSL".
- u. In claim 37, line 4, "transceiver" has been changed to "transceiver furthest from the central office interface" and lines 5-6, "by the DSL" has been changed to "by the last DSL".
- v. In claim 38, line 2, "upstream and downstream DSL transceiver to" has been deleted.
- w. In claim 39, line 2, "upstream and downstream DSL transceiver to" has been deleted.
- x. In claim 42, line 3, "with central" has been changed to "with a central", line 11, "via serially" has been changed to "via the serially", line 13, "transmission" has been changed to "transmissions", line 15, "transmission" has been changed to

- "transmissions", line 16, "transmission of the" has been changed to "transmissions of a" and line 18, "communicating the" has been changed to "communicating a".
- y. In claim 43, line 2, "a portion of an" has been changed to "the portion of the", line 3, "an upstream" has been changed to "the upstream".
- z. In claim 46, line 2, "the plurality of DSL transceivers are" has been changed to "a plurality of DSL transceivers is", line 3, "and second" has been changed to "and a second" and line 3, "between serially" has been changed to "between the serially".
- aa. Claim 47 has been cancelled.
- bb. In claim 48, line 6, "recovered portion" has been changed to "recovered mapped portion".
- cc. In claim 54, lines 1-2, "to DSL transceiver upstream and downstream" has been deleted.
- dd. In claim 55, line 1, "transfer is" has been changed to "transfer protocol is".
- ee. In claim 58, line 2, "the received" has been changed to "the recovered mapped" and line 4, "received and" has been deleted.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Ahn whose telephone number is (571) 272-3044. The examiner can normally be reached on Monday-Friday.

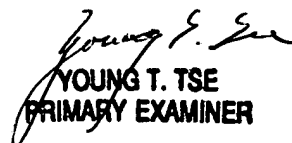
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair->

Art Unit: 2637

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Sam K. Ahn
2/3/06


YOUNG T. TSE
PRIMARY EXAMINER